

From: Portner, Ginny
Sent: Wednesday, November 05, 2003 2:52 PM
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Importance: High

0009262120 BIOISIS NO.: 199497283405

Three tuf-like genes in the kirromycin producer Streptomyces ramocissimus
 AUTHOR: Vlijgenboom E (Reprint); Woudt L P; Heinstra P W H; Rietveld K; Van Haarlem J; Van Wezel G P; Shochat S; Bosch L
 AUTHOR ADDRESS: Dep. Biochem., Leiden Univ., Gorlaeus Lab., PO Box 9402, 2300 RA Leiden, Netherlands**Netherlands
 JOURNAL: Microbiology (Reading) 140 (4): p983-998 1994 1994
 DOCUMENT TYPE: Article
 RECORD TYPE: Abstract
 LANGUAGE: English

05220152 Genuine Article#: VH925 Number of References: 46

Title: IDENTIFICATION OF AN EF-TU PROTEIN THAT IS PERIPLASM-ASSOCIATED AND PROCESSED IN NEISSERIA-GONORRHOEAE

le: ELONGATION FACTOR-TU IS METHYLATED IN RESPONSE TO NUTRIENT DEPRIVATION IN ESCHERICHIA-COLI

Author(s): YOUNG CC; BERNLOHR RW

Corporate Source: PENN STATE UNIV,DEPT MOLEC & CELL BIOL/UNIVERSITY PK//PA/16802; PENN STATE UNIV,DEPT MOLEC & CELL BIOL/UNIVERSITY PK//PA/16802

Journal: JOURNAL OF BACTERIOLOGY, 1991, V173, N10, P3096-3100

Language: ENGLISH Document Type: ARTICLE

Geographic Location: USA

Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences

Journal Subject Category: MICROBIOLOGY

11456023 PASCAL No.: 94-0290825

Cloning, sequencing, and expression in Escherichia coli of the gene encoding a 45-kilodalton protein, elongation factor Tu, from Chlamydia trachomatis serovar F

YOU-XUN ZHANG; YAN SHI; MIN ZHOU; PETSKO G A *ERIN*
 Boston univ. school medicine, Boston City hosp., Maxwell Finland lab.
 infectious diseases, Boston MA 02118, USA

Journal: Journal of bacteriology, 1994, 176 (4) 1184-1187

ISSN: 0021-9193 CODEN: JOBAAY Availability: INIST-2041;
 354000025490960310

No. of Refs.: 22 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: USA

Language: English

05913012 PASCAL No.: 85-0098066

A competitive solid-phase radioimmunoassay for translational factors employing monoclonal antibodies

HUTCHINSON J S; FEINBERG B; MOLDAVE K
 Univ. California, coll. medicine, Irvine CA 92717, USA

Journal: Journal of immunological Methods, 1984, 73 (2) 337-345
 ISSN: 0022-1759 Availability: CNRS-15654

No. of Refs.: 13 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: Netherlands

Language: English

09164041 PASCAL No.: 90-0332421

Immunochemical cross-reactivities of protein synthesis elongation factors (EF-Tu and EF-1 alpha proteins) support the phylogenetic coherence of archaebacteria

TIBONI O; SANAGELANTONI A M; DI PASQUALE G; CAMMARANO P

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In case of problems, please [contact us](#).

NCBI BLAST program reference [PMID:9254694] :

Altschul S.F., Madden T.L., Schäffer A.A., Zhang J., Zhang Z., Miller W., Lipman D.J. Gapped BLAST and PSI-BLAST: a new generation of protein database search programs. Nucleic Acids Res. 25:3389-3402(1997).

Query length: 399 AA (of which 5% low-complexity regions filtered out)

Date run: 2003-11-05 13:47:07 UTC+0100 on sib-blast.unil.ch

Program: NCBI BLASTP 2.2.5 [Nov-16-2002]

Database: XXtremblnew; XXtrembl; XXswissprot

1,302,277 sequences; 418,537,104 total letters

Swiss-Prot Release 42.1 of 24-Oct-2003

TrEMBL Release 25.1 of 24-Oct-2003

TrEMBL_new of 24-Oct-2003

Taxonomic view	NiceBlast view	Printable view
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List of potentially matching sequences

Send selected sequences to **Clustal W (multiple alignment)** ▼ **Submit Query**

Select up to...

Include query sequence

Db AC	Description	Score	E-value
<input type="checkbox"/> sp Q9ZK19	EFTU_HELPJ Elongation factor Tu (EF-Tu) [TUF] [Helicob... 743	0.0	
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<input type="checkbox"/> tn AAQ61860	Translation elongation factor Tu (EC 3.6.1.48) [tufB... 573	e-162	

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<input type="checkbox"/>	<u>sp O50306</u>	EFTU_BACST Elongation factor Tu (EF-Tu) [TUF] [Bacillu...]	<u>571</u>	e-162
<input type="checkbox"/>	<u>sp Q8R7T8</u>	EFT2_THETN Elongation factor Tu-B (EF-Tu-B) [TUFB] [Th...]	<u>568</u>	e-161
<input type="checkbox"/>	<u>sp Q8R603</u>	EFTU_FUSNN Elongation factor Tu (EF-Tu) [TUF] [Fusobac...]	<u>568</u>	e-161
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<input type="checkbox"/>	<u>tr Q83ES6</u>	Translation elongation factor Tu [TUF-2] [Coxiella bur...]	<u>567</u>	e-161
<input type="checkbox"/>	<u>tn EAA25023</u>	Protein Translation Elongation Factor Tu (EF-TU) [FN...]	<u>567</u>	e-161
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<input type="checkbox"/>	<u>sp Q8Y422</u>	EFTU_LISMO Elongation factor Tu (EF-Tu) [TUF] [Listeri...]	<u>566</u>	e-160
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<input type="checkbox"/>	<u>tr Q81ZS3</u>	GTPases-translation elongation factors and sulfate ade...	<u>565</u>	e-160
<input type="checkbox"/>	<u>sp P57939</u>	EFT1_PASMU Elongation factor Tu-A (EF-Tu-A) [TUFA] [Pa...]	<u>565</u>	e-160
<input type="checkbox"/>	<u>tr Q8L160</u>	Elongation factor Tu [TUFA] [Myxococcus xanthus]	<u>565</u>	e-160
<input type="checkbox"/>	<u>tr Q8ETY4</u>	Elongation factor EF-Tu [TUFA] [Oceanobacillus iheyensis]	<u>564</u>	e-160
<input type="checkbox"/>	<u>tr Q7TT91</u>	Elongation factor Tu [TUF] [Bordetella pertussis]	<u>563</u>	e-159
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<input type="checkbox"/>	<u>tr Q81VT2</u>	Translation elongation factor Tu [TUF] [Bacillus anthr...]	<u>558</u>	e-158
<input type="checkbox"/>	<u>tr Q9F9S8</u>	Eftu [EFTU] [EDTA-degrading bacterium BNC1]	<u>557</u>	e-157
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<input type="checkbox"/>	<u>sp O31298</u>	EFTU_BUCAP Elongation factor Tu (EF-Tu) [TUF] [Buchner...]	<u>555</u>	e-157
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<input type="checkbox"/>	<u>tn CAE17102</u>	Elongation factor Tu (EF-Tu) [tufA] [Photorhabdus lu...]	<u>554</u>	e-157
<input type="checkbox"/>	<u>sp P18668</u>	EFTU_SYNTP6 Elongation factor Tu (EF-Tu) [TUF] [Synecho...]	<u>554</u>	e-156
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<input type="checkbox"/>	<u>tr Q89J82</u>	Elongation factor TU [TUF] [Bradyrhizobium japonicum]	<u>552</u>	e-156
<input type="checkbox"/>	<u>tr Q8KHX9</u>	Elongation factor TU [TUFB] [Bartonella henselae (Roch...]	<u>552</u>	e-156
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CLUSTAL FORMAT for T-COFFEE Version_1.37, CPU=0.00 sec, SCORE=20400, Nseq=2, Len=399

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unk VIRT8691 Blast_submission sp Q9ZK19 EFTU_HELPJ	ITIATSHIEYETETRHYAHDVDCPGHADYVKNMITGAAQMDGAILVVSAADGPMPQ ITIATSHIEYETETRHYAHDVDCPGHADYVKNMITGAAQMDGAILVVSAADGPMPQ *****
unk VIRT8691 Blast_submission sp Q9ZK19 EFTU_HELPJ	LLSRQVGVPHIIVFLNKQDMVDDQELLELVELEMVERLLSAYEFPGDDTPIVAGSA LLSRQVGVPHIIVFLNKQDMVDDQELLELVELEMVERLLSAYEFPGDDTPIVAGSA *****
unk VIRT8691 Blast_submission sp Q9ZK19 EFTU_HELPJ	EAKAGNVGEWGEKVLKLMAEVDSYIPTPERDTEKTFLMPVEDVFSIAGRGTVVVG EAKAGNVGEWGEKVLKLMAEVDSYIPTPERDTEKTFLMPVEDVFSIAGRGTVVVG *****
unk VIRT8691 Blast_submission sp Q9ZK19 EFTU_HELPJ	VVKVGDEVEIVGIRATQKTTVTGVEMFRKELEKGEAGDNVGVLLRGTKKEEVERG VVKVGDEVEIVGIRATQKTTVTGVEMFRKELEKGEAGDNVGVLLRGTKKEEVERG *****
unk VIRT8691 Blast_submission sp Q9ZK19 EFTU_HELPJ	PGSITPHKKFEEEIYVLSKEEGGRHTPFFTNYRPQFYVRTTDVTGSITLPEGVEM PGSITPHKKFEEEIYVLSKEEGGRHTPFFTNYRPQFYVRTTDVTGSITLPEGVEM *****
unk VIRT8691 Blast_submission sp Q9ZK19 EFTU_HELPJ	NVKITVELISPVALELGTKFAIREGGRTVGAGVVSNIIE NVKITVELISPVALELGTKFAIREGGRTVGAGVVSNIIE *****

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NCBI BLAST program reference [PMID:9254694]:

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Query length: 22 AA

Date run: 2003-11-05 13:51:17 UTC+0100 on sib-blast.unil.ch

Program: NCBI BLASTP 2.2.5 [Nov-16-2002]

Database: XXtremblnew; XXtrembl; XXswissprot

1,302,277 sequences; 418,537,104 total letters

Swiss-Prot Release 42.1 of 24-Oct-2003

TrEMBL Release 25.1 of 24-Oct-2003

TrEMBL_new of 24-Oct-2003

List of potentially matching sequences

Send selected sequences to

Include query sequence

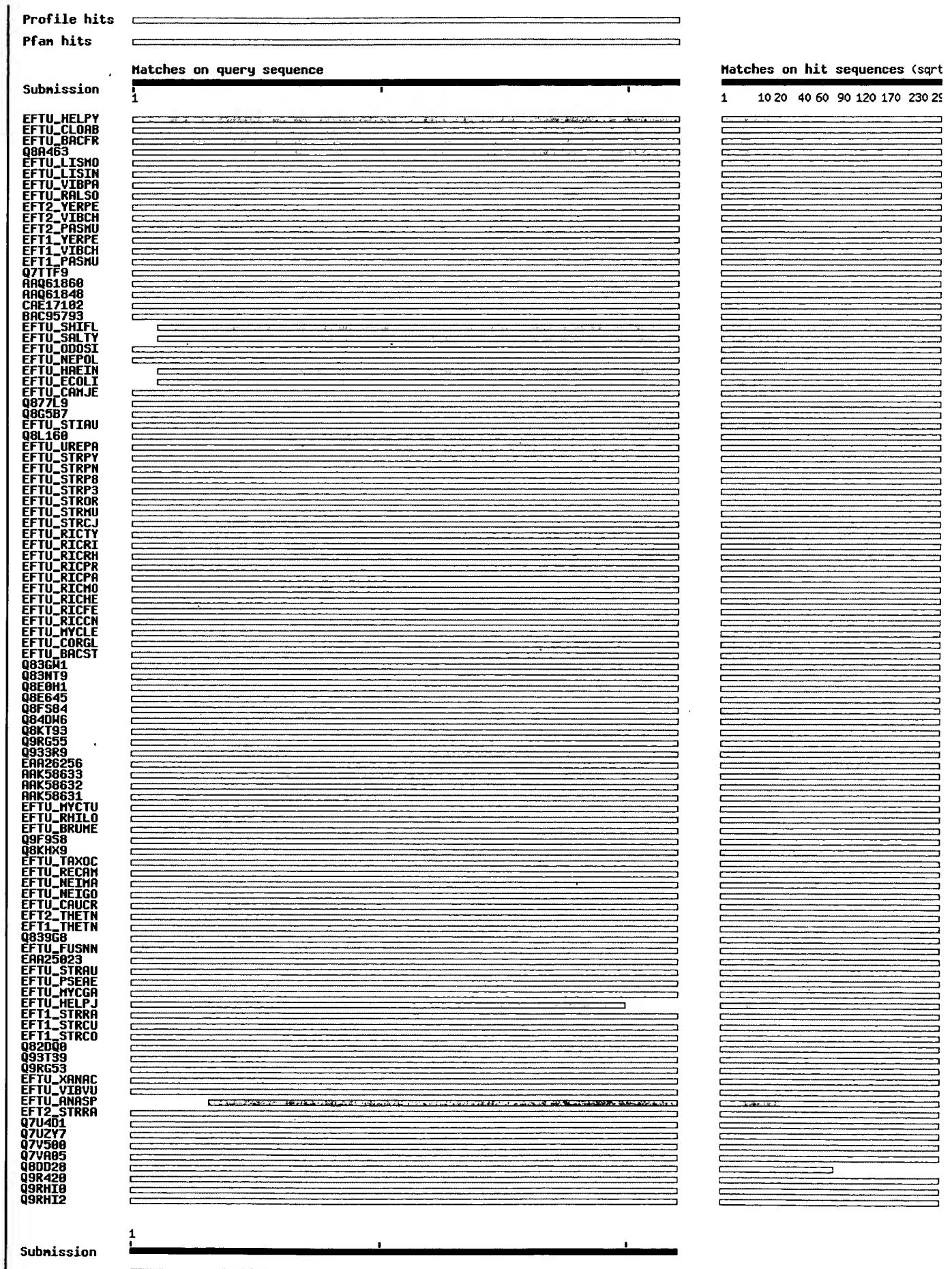
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<input type="checkbox"/>	sp Q8KTA1	EFTU_RICMO Elongation factor Tu (EF-Tu) [TUF] [Rickett... 63 3e-10
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<input type="checkbox"/>	tr Q8E645	Elongation factor Tu [TUFA] [Streptococcus agalactiae ... 63 3e-10
<input type="checkbox"/>	tr Q8FS84	Putative translation elongation factor EF-Tu [CE0517] ... 63 3e-10
<input type="checkbox"/>	tr Q84DW6	Elongation factor Tu [TUF] [Tropheryma whipplei (Whipp... 63 3e-10
<input type="checkbox"/>	tr Q8KT93	Elongation factor Tu [TUF] [Rickettsia bellii] 63 3e-10
<input type="checkbox"/>	tr Q9RG55	Elongation factor Tul [TUF1] [Streptomyces mobaraensis] 63 3e-10
<input type="checkbox"/>	tr Q933R9	Elongation factor Tu [TUF] [Ureaplasma urealyticum (Ur... 63 3e-10

<input type="checkbox"/>	tn EAA26256	Elongation factor EF-Tu [rsib_orf.1089] [Rickettsia ...	<u>63</u>	3e-10
<input type="checkbox"/>	tn AAK58633	Elongation factor Tu [tuf] [Ureaplasma urealyticum (...	<u>63</u>	3e-10
<input type="checkbox"/>	tn AAK58632	Elongation factor Tu [tuf] [Ureaplasma urealyticum (...	<u>63</u>	3e-10
<input type="checkbox"/>	tn AAK58631	Elongation factor Tu [tuf] [Ureaplasma urealyticum (...	<u>63</u>	3e-10
<input type="checkbox"/>	sp P31501	EFTU_MYCTU Elongation factor Tu (EF-Tu) [TUF] [Mycobac...	<u>63</u>	4e-10
<input type="checkbox"/>	sp Q981F7	EFTU_RHILO Elongation factor Tu (EF-Tu) [TUFA] [Rhizob...	<u>63</u>	5e-10
<input type="checkbox"/>	sp Q8YHQ4	EFTU_BRUME Elongation factor Tu (EF-Tu) [TUFA] [Brucel...	<u>63</u>	5e-10
<input type="checkbox"/>	tr Q9F9S8	Eftu [EFTU] [EDTA-degrading bacterium BNC1]	<u>63</u>	5e-10
<input type="checkbox"/>	tr Q8KHX9	Elongation factor TU [TUFB] [Bartonella henselae (Roch...]	<u>63</u>	5e-10
<input type="checkbox"/>	sp P42480	EFTU_TAXOC Elongation factor Tu (EF-Tu) [TUF] [Taxeoba...	<u>62</u>	7e-10
<input type="checkbox"/>	sp O21245	EFTU_RECAM Elongation factor Tu, mitochondrial [TUFA] ...	<u>62</u>	7e-10
<input type="checkbox"/>	sp Q9JRI5	EFTU_NEIMA Elongation factor Tu (EF-Tu) [TUFA] [Neisse...	<u>62</u>	7e-10
<input type="checkbox"/>	sp P48864	EFTU_NEIGO Elongation factor Tu (EF-Tu) [TUF] [Neisser...	<u>62</u>	7e-10
<input type="checkbox"/>	sp Q99QM0	EFTU_CAUCR Elongation factor Tu (EF-Tu) [TUFA] [Caulob...	<u>62</u>	7e-10
<input type="checkbox"/>	sp Q8R7T8	EFT2_THETN Elongation factor Tu-B (EF-Tu-B) [TUFB] [Th...	<u>62</u>	7e-10
<input type="checkbox"/>	sp Q8R7V2	EFT1_THETN Elongation factor Tu-A (EF-Tu-A) [TUFA] [Th...	<u>62</u>	7e-10
<input type="checkbox"/>	tr Q839G8	Translation elongation factor Tu [TUF] [Enterococcus f...	<u>62</u>	7e-10
<input type="checkbox"/>	sp Q8R603	EFTU_FUSNN Elongation factor Tu (EF-Tu) [TUF] [Fusobac...	<u>62</u>	1e-09
<input type="checkbox"/>	tn EAA25023	Protein Translation Elongation Factor Tu (EF-TU) [FN...	<u>62</u>	1e-09
<input type="checkbox"/>	sp O33594	EFTU_STRAU Elongation factor Tu (EF-Tu) [TUF1] [Strept...	<u>61</u>	1e-09
<input type="checkbox"/>	sp P09591	EFTU_PSEAE Elongation factor Tu (EF-Tu) [TUFA] [Pseudo...	<u>61</u>	1e-09
<input type="checkbox"/>	sp P18906	EFTU_MYCGA Elongation factor Tu (EF-Tu) [TUF] [Mycopla...	<u>61</u>	1e-09
<input type="checkbox"/>	sp Q9ZK19	EFTU_HELPJ Elongation factor Tu (EF-Tu) [TUF] [Helicob...	<u>61</u>	1e-09
<input type="checkbox"/>	sp P29542	EFT1_STRRA Elongation factor Tu-1 (EF-Tu-1) [TUF1] [St...	<u>61</u>	1e-09
<input type="checkbox"/>	sp Q53871	EFT1_STRCU Elongation factor Tu-1 (EF-Tu-1) [TUF1] [St...	<u>61</u>	1e-09
<input type="checkbox"/>	sp P40174	EFT1_STRCO Elongation factor Tu-1 (EF-Tu-1) [TUF1] [St...	<u>61</u>	1e-09
<input type="checkbox"/>	tr Q82DQ0	Putative elongation factor EF-Tu [TUF1] [Streptomyces ...	<u>61</u>	1e-09
<input type="checkbox"/>	tr Q93T39	Elongation factor Tu [TUF1] [Streptomyces aureofaciens]	<u>61</u>	1e-09
<input type="checkbox"/>	tr Q9RG53	Elongation factor Tu1 [TUF1] [Streptoverticillium netr...	<u>61</u>	1e-09
<input type="checkbox"/>	sp Q8NL22	EFTU_XANAC Elongation factor Tu (EF-Tu) [TUFA] [Xantho...	<u>61</u>	2e-09
<input type="checkbox"/>	sp Q8DCQ7	EFTU_VIBVU Elongation factor Tu (EF-Tu) [TUF] [Vibrio ...	<u>61</u>	2e-09
<input type="checkbox"/>	sp Q8YP63	EFTU_ANASP Elongation factor Tu (EF-Tu) [TUF] [Anabaen...	<u>61</u>	2e-09
<input type="checkbox"/>	sp P29543	EFT2_STRRA Elongation factor Tu-2 (EF-Tu-2) [TUF2] [St...	<u>61</u>	2e-09
<input type="checkbox"/>	tr Q7U4D1	Elongation factor EF-Tu (EC 3.6.1.48) [TUFA] [Synechoc...	<u>61</u>	2e-09
<input type="checkbox"/>	tr Q7UZY7	Elongation factor Tu (EC 3.6.1.48) [TUFA] [Prochloroco...	<u>61</u>	2e-09
<input type="checkbox"/>	tr Q7V500	Elongation factor Tu, EF-Tu (EC 3.6.1.48) [TUFA] [Proc...	<u>61</u>	2e-09
<input type="checkbox"/>	tr Q7VA05	Translation elongation factor EF-Tu [TUFB] [Prochloroc...	<u>61</u>	2e-09
<input type="checkbox"/>	tr Q8DD28	GTPase-translation elongation factor [VV11203] [Vibrio...	<u>61</u>	2e-09
<input type="checkbox"/>	tr Q9R420	EF-TU [EF-TU] [Porphyromonas gingivalis (Bacteroides g...	<u>61</u>	2e-09
<input type="checkbox"/>	tr Q9RHIO	EF-Tu [EF-TU] [Porphyromonas gingivalis (Bacteroides g...	<u>61</u>	2e-09
<input type="checkbox"/>	tr Q9RHI2	EF-Tu [EF-TU] [Porphyromonas gingivalis (Bacteroides g...	<u>61</u>	2e-09

Graphical overview of the alignments

to resubmit your query after masking regions matching [PROSITE](#) profiles or [Pfam](#) HMMs
 ([Help](#)) (use [ScanProsite](#) for more details about PROSITE matches)



WEST Search History

updated
11/5/03

DATE: Wednesday, November 05, 2003

Set Name Query

side by side

DB=USPT; PLUR=YES; OP=AND

		<u>Hit Count</u>	<u>Set Name</u>
		result s t	
L1	eftu or ef-tu or eftub or eftu-b or eftu-a or ef-tu-b or ef-tu-a or eftua or (translation near elongation near factor)	170	L1
L2	L1 same (antisera or antiserum or antibody or antibodies or immune or monoclonal or moab or mab or mono-clonal or polyclonal or poly-clonal or immunoglobulin or igg or igm or iga or siga or ig-g or ig-m or ig-a or monospecific)	7	L2

END OF SEARCH HISTORY

WEST Search History

DATE: Wednesday, November 05, 2003

Set Name Query
side by side

<u>Hit Count</u>	<u>Set Name</u>
	result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES;
OP=AND

L1	(translat\$.clm. and elongat\$.clm.) or eftu\$.clm. or ef-tu\$3.clm.	6958	L1
L2	(translat\$.clm. and elongat\$.clm.) or eftu\$.clm. or ef-tu\$3.clm. or (factor.clm. same tu.clm.)	6964	L2
L3	L2 and (1996 or 1997 or 1998 or 1999 or 2000 or 2001 or 2003).pray.	298	L3
L4	L2 not L3	6666	L4
L5	L4 and helicobacter	2	result set
L6	L1 and (pylori or helicobacter).clm.	0	L6
L7	L1 and (n-terminal or nterminal or aminoterminal or (amino near2 terminal)).clm.	3	L7

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 9 of 9 returned.

- 1. 6228886. 22 May 00; 08 May 01. Nutritional formulations containing water-miscible lipid derivatives as antibacterial agents. Anderson; Steven N., et al. 514/547; 514/548. A67K031/225.
- 2. 6136855. 16 Jul 99; 24 Oct 00. Water-Miscible esters of mono- and diglycerides having antimicrobial activity and their use in inhibiting infection. Guzman-Harty; Melinda, et al. 514/546; 514/547 514/560. A01N037/02.
- 3. 6086893. 05 Dec 97; 11 Jul 00. Helicobacter lactoferrin receptor. Dupuy; Monique, et al. 424/234.1; 435/252.1 435/6 435/7.32. A61K039/02.
- 4. 6066669. 16 Apr 99; 23 May 00. Nutritional formulations containing water-miscible lipid derivatives as anti-bacterial agents. Anderson; Steven N., et al. 514/546; 514/547 514/548 514/549 514/558 514/559 514/560. A61K031/22.
- 5. 5981587. 31 Jul 96; 09 Nov 99. Water-miscible esters of mono- and diglycerides having antimicrobial activity and their use in inhibiting infection. Guzman-Harty; Melinda, et al. 514/546; 514/560. A61K031/22 A61K031/20.
- 6. 5958974. 31 Jul 96; 28 Sep 99. Nutritional formulations containing water-miscible lipid derivatives as antibacterial agents. Anderson; Steven N., et al. 514/547; 514/548. A61K031/225.
- 7. 5912372. 29 Jul 97; 15 Jun 99. Water-miscible esters of monoglycérides having antimicrobial activity. Mazer; Terry Bruce, et al. 554/227; 560/190 562/590. C07C053/00 C07C069/52.
- 8. 5908862. 31 Jul 96; 01 Jun 99. Water-miscible esters of mono--and diglycerides having antibacterial activity and their use in inhibiting infection.

Wai Lee; Theresa Siu-Ling, et al. 514/546; 514/547 514/548 514/549
514/558 514/559 514/560. A61K031/22.

9. 5866606. 02 Jul 97; 02 Feb 99. Nutritional formulations containing water-miscible lipid derivatives as anti-microbial agents. Schaller; Joseph, et al. 514/547; 560/185 560/186 560/187 560/189 560/201. A61K031/20
A61K031/23.

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Terms	Documents
(ling or lissolo).in. and (pylori or pyloris or pyloridis or pylorum or hpylori or helicobacter)	9

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WEST Search History

DATE: Wednesday, November 05, 2003

Set Name Query

side by side

DB=USPT; PLUR=YES; OP=AND

L1 (ling or lissolo).in. and (pylori or pyloris or
pyloridis or pylorum or hpylori or
helicobacter)

Hit Count Set Name

result set

9 L1

END OF SEARCH HISTORY

SYSTEM:OS - DIALOG OneSearch
File 155: MEDLINE(R) 1966-2003/Nov W1
(c) format only 2003 The Dialog Corp.
*File 155: Please see HELP NEWS 155 for details about the 2003 reload.
File 5:Biosis Previews(R) 1969-2003/Nov W1
(c) 2003 BIOSIS
*File 5: BIOSIS Previews has been reloaded with major enhancements.
See HELP NEWS005 for more information.
File 34:SciSearch(R) Cited Ref Sci 1990-2003/Oct W4
(c) 2003 Inst for Sci Info
File 35:Dissertation Abs Online 1861-2003/Oct
(c) 2003 ProQuest Info&Learning
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File 73:EMBASE 1974-2003/Oct W4
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File 91:MANTIS(TM) 1880-2002/Dec
2003 (c) Action Potential
File 94:JICST-EPlus 1985-2003/Nov W1
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File 98:General Sci Abs/Full-Text 1984-2003/Sep
(c) 2003 The HW Wilson Co.
File 135:NewsRx Weekly Reports 1995-2003/Oct W4
(c) 2003 NewsRx
*File 135: New newsletters are now added. See Help News135 for the complete list of newsletters.
File 144:Pascal 1973-2003/Oct W4
(c) 2003 INIST/CNRS
File 149:TGG Health&Wellness DB(SM) 1976-2003/Oct W2
(c) 2003 The Gale Group
File 156:ToxFile 1965-2003/Nov W1
(c) format only 2003 The Dialog Corporation
*File 156: Please see HELP NEWS 156 for information regarding the 2003 reload.
File 159:Cancerlit 1975-2002/Oct
(c) format only 2002 Dialog Corporation
*File 159: Cancerlit ceases updating with immediate effect.
Please see HELP NEWS.
File 162:Global Health 1983-2003/Sep
(c) 2003 CAB International
*File 162: Effective May 1, name changes from CAB Health to Global Health.
File 164:Allied & Complementary Medicine 1984-2003/Oct
(c) 2003 BLHCIS
File 172:EMBASE Alert 2003/Nov W1
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File 266:FEDRIP 2003/Sep
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File 369:New Scientist 1994-2003/Oct W4
(c) 2003 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
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*File 370: This file is closed (no updates). Use File 47 for more current information.
File 399:CA SEARCH(R) 1967-2003/UD=13919
(c) 2003 American Chemical Society
*File 399: Use is subject to the terms of your user/customer agreement.
Alert feature enhanced for multiple files, etc. See HELP ALERT.
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
File 444:New England Journal of Med. 1985-2003/Nov W2
(c) 2003 Mass. Med. Soc.
File 467:ExtraMED(tm) 2000/Dec
(c) 2001 Informania Ltd.



*File 467: For information about updating status please see Help News467.

Set	Items	Description
Cost is in DialUnits		
?ds		
Set	Items	Description
S1	5	'EF-TU'
S2	2	'PROKARYOTIC INITIATION FACTORS'
S3	2837	R1-R8
S4	407	TRANSLATION? (2N) ELONGAT? (2N) FACTOR?
S5	26	'EFTU' OR 'EFTUA'
S6	176	(S1 OR S2 OR S3 OR S4 OR S5) AND ((AMINO OR N) (3N) TERMINAL?)
S7	17	S6 AND (ANTIBOD? OR IMMUNE? OR IMMUNOGLOB? OR ANTISER? OR - IGG OR IGA OR IGM OR MONOCLONAL? OR POLYCLONAL? OR MAB OR MOAB OR ANTISER?)
S8	1428	EFTU OR EF-TU OR EFTU?
S9	3952	TRANSLATION? (2N) ELONGAT?
S10	265	(S8 OR S9) AND (ANTIBOD? OR IMMUNE? OR IMMUNOGLOB? OR ANTISER? OR IGG OR IGA OR IGM OR MONOCLONAL? OR POLYCLONAL? OR MAB OR MOAB)
S11	159	S10/1996:2003
S12	106	S10 NOT S11
S13	142	S10/1997:2003
S14	123	S10 NOT S13
S15	71	RD (unique items)

?t s15/9/15 21 25 27 29 32 35 39 40 49 50 51 52 53 67 68

15/9/15 (Item 15 from file: 155)
DIALOG(R)File 155: MEDLINE(R)
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06302395 89318550 PMID: 2749901
Regulation of the synthesis of total cellular proteins and monoclonal antibodies in a hybridoma cell culture]
Reguliatsiia sinteza summarnykh kletochnykh belkov i monoklonal'nykh antitel v kul'ture gibridomnykh kletok.

Morenkov O S; Mantsygin Iu A; Lezhnev E I
Tsitologiya (USSR) Mar 1989, 31 (3) p324-35, ISSN 0041-3771

Journal Code: 0417363

Document type: Journal Article ; English Abstract

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

A study was made of the regulation of total protein synthesis in cells of the mouse hybridoma producing monoclonal antibodies (McAb) against lambda phage, and in the course of hybridoma growth and at the change of fetal bovine serum (FBS) concentration. FBS strictly affected proliferation of hybridoma cells, the specific production of McAb per cell being unchanged. The rate of total cellular protein synthesis does depend on FBS concentration in the medium, whereas the rates of protein degradation and secretion do not. Evidence is presented that the reduction in the protein-synthesis rate, after the removal of FBS from the medium, is caused by a coordinated decrease in both the rate of protein synthesis initiation and the rates of polypeptide chain elongation and translation termination. The decrease in the protein synthesis rate at the stationary phase of cell growth was shown to be related to the three main factors: 1) a 15-25% decrease in ribosome content per cell; 2) a two-fold decrease of the ribosome portion involved in mRNA translation; 3) a 5 to 15% decrease in the rate of mRNA translation. Evidence is presented that the decrease in the portion of mRNA translating ribosomes is due to the decrease in the rate of protein synthesis initiation.

Tags: Animal

Descriptors: Antibodies , Monoclonal --biosynthesis--BI; *Hybridomas --metabolism--ME; *Proteins--biosynthesis--BI; Cell Division--drug effects --DE; Culture Media; Dose-Response Relationship, Drug; Hybridomas--cytology